

Transistors, General

| Type      | Polarity | Material | P <sub>tot</sub> Max. (mW) | f <sub>T</sub> Typ. (MHz) | Absolute Max. Ratings |                      |                      |                     | h <sub>FE</sub> |       |      | T <sub>J</sub> Max. (°C) | C <sub>OB</sub> Max. (pF) | Case Outline | Lead Info. | Manufacturer               |
|-----------|----------|----------|----------------------------|---------------------------|-----------------------|----------------------|----------------------|---------------------|-----------------|-------|------|--------------------------|---------------------------|--------------|------------|----------------------------|
|           |          |          |                            |                           | V <sub>CE0</sub> (V)  | V <sub>CEO</sub> (V) | V <sub>EB0</sub> (V) | I <sub>C</sub> (mA) | Min.            | at mA | Max. |                          |                           |              |            |                            |
| BC308-92  | PNP      | Si       | 300                        | 130                       | -30                   | -25                  | -5                   | 100                 | 125             | 2     | 900  | 150                      | 4.5                       | TO-92        | 11         | N                          |
| BC308A    | PNP      | Si       | 300                        | 130                       | -30                   | -25                  | -5                   | 100                 | 110             | 2     | 220  | 150                      | 4.5                       | TO-92        | 11         | AEG,F,GE,ITT,<br>Mo,Sp,u   |
| BC308A-92 | PNP      | Si       | 300                        | 130                       | -30                   | -25                  | -5                   | 100                 | 125             | 2     | 260  | 150                      | 4.5                       | TO-92        | 11         | N                          |
| BC308B    | PNP      | Si       | 300                        | 130                       | -30                   | -25                  | -5                   | 100                 | 200             | 2     | 450  | 150                      | 4.5                       | TO-92        | 11         | AEG,F,ITT,<br>Mo,Sp,u      |
| BC308B-92 | PNP      | Si       | 300                        | 130                       | -30                   | -25                  | -5                   | 100                 | 140             | 2     | 400  | 150                      | 4.5                       | TO-92        | 11         | N                          |
| BC308C    | PNP      | Si       | 300                        | 130                       | -30                   | -25                  | -5                   | 100                 | 420             | 2     | 800  | 150                      | 4.5                       | TO-92        | 11         | AEG,F,ITT,<br>Mo,Sp,u      |
| BC308C-92 | PNP      | Si       | 300                        | 130                       | -30                   | -25                  | -5                   | 100                 | 140             | 2     | 400  | 150                      | 4.5                       | TO-92        | 11         | N                          |
| BC308P    | PNP      | Si       | 300                        | 130                       | -30                   | -25                  | -5                   | 100                 | 120             | 2     | 220  | 150                      | 4.5                       | TO-92        | 06         | Fe                         |
| BC308VI   | PNP      | Si       | 300                        | 130                       | -30                   | -25                  | -5                   | 100                 | 70              | 2     | 140  | 150                      | 4.5                       | TO-92        | 12         | AEG,u                      |
| BC309     | PNP      | Si       | 300                        | 130                       | -25                   | -20                  | -5                   | 100                 | 75              | 2     | 900  | 150                      | 4.5                       | TO-92        | 11         | AEG,F,GE,Mo,u              |
| BC309-92  | PNP      | Si       | 300                        | 130                       | -25                   | -20                  | -5                   | 100                 | 140             | 2     | 400  | 150                      | 4.5                       | TO-92        | 11         | N                          |
| BC309A    | PNP      | Si       | 300                        | 130                       | -25                   | -20                  | -5                   | 100                 | 120             | 2     | 220  | 150                      | 4.5                       | TO-92        | 11         | AEG                        |
| BC309B    | PNP      | Si       | 300                        | 130                       | -25                   | -20                  | -5                   | 100                 | 240             | 2     | 500  | 150                      | 4.5                       | TO-92        | 11         | AEG,F,ITT,<br>Mo,Sp,u      |
| BC309B-92 | PNP      | Si       | 300                        | 130                       | -25                   | -20                  | -5                   | 100                 | 240             | 2     | 500  | 150                      | 4.5                       | TO-92        | 11         | N                          |
| BC309C    | PNP      | Si       | 300                        | 130                       | -25                   | -20                  | -5                   | 100                 | 450             | 2     | 900  | 150                      | 4.5                       | TO-92        | 11         | AEG,F,ITT,<br>Mo,Sp,u      |
| BC309C-92 | PNP      | Si       | 300                        | 130                       | -25                   | -20                  | -5                   | 100                 | 140             | 2     | 400  | 150                      | 4.5                       | TO-92        | 11         | N                          |
| BC309P    | PNP      | Si       | 300                        | 130                       | -25                   | -20                  | -5                   | 100                 | 120             | 2     | 220  | 150                      | 4.5                       | TO-92        | 06         | Fe                         |
| BC312     | NPN      | Si       | 800                        | 100                       | 100                   | 100                  | 5                    | 150                 | 40              | 1     | -    | 200                      | 10                        | TO-39        | 08         | TI                         |
| BC317     | NPN      | Si       | 350                        | 100                       | 50                    | 45                   | 6                    | 150                 | 110             | 2     | 450  | 135                      | 4                         | TO-92        | 13         | F,N                        |
| BC317A    | NPN      | Si       | 350                        | 100                       | 50                    | 45                   | 6                    | 150                 | 110             | 2     | 220  | 135                      | 4                         | TO-92        | 13         | F,N                        |
| BC317B    | NPN      | Si       | 350                        | 100                       | 50                    | 45                   | 6                    | 150                 | 220             | 2     | 450  | 135                      | 4                         | TO-92        | 13         | F,N                        |
| BC318     | NPN      | Si       | 350                        | 100                       | 40                    | 30                   | 5                    | 150                 | 110             | 2     | 800  | 135                      | 4                         | TO-92        | 13         | F,N                        |
| BC318A    | NPN      | Si       | 350                        | 100                       | 40                    | 30                   | 5                    | 150                 | 110             | 2     | 220  | 135                      | 4                         | TO-92        | 13         | F,N                        |
| BC318B    | NPN      | Si       | 350                        | 100                       | 40                    | 30                   | 5                    | 150                 | 200             | 2     | 450  | 135                      | 4                         | TO-92        | 13         | F,N                        |
| BC318C    | NPN      | Si       | 350                        | 100                       | 40                    | 30                   | 5                    | 150                 | 400             | 2     | 800  | 135                      | 4                         | TO-92        | 13         | F,N                        |
| BC319     | NPN      | Si       | 350                        | 100                       | 30                    | 20                   | 5                    | 150                 | 200             | 2     | 800  | 135                      | 4                         | TO-92        | 13         | F,N                        |
| BC319B    | NPN      | Si       | 350                        | 100                       | 30                    | 20                   | 5                    | 150                 | 200             | 2     | 450  | 135                      | 4                         | TO-92        | 13         | F,N                        |
| BC319C    | NPN      | Si       | 350                        | 100                       | 30                    | 20                   | 5                    | 150                 | 400             | 2     | 800  | 135                      | 4                         | TO-92        | 13         | F,N                        |
| BC320     | PNP      | Si       | 310                        | 130                       | -50                   | -45                  | -6                   | 150                 | 110             | 2     | 450  | 135                      | 4                         | TO-92        | 13         | F,u                        |
| BC320A    | PNP      | Si       | 310                        | 130                       | -50                   | -45                  | -6                   | 150                 | 110             | 2     | 220  | 135                      | 4                         | TO-92        | 13         | F,u                        |
| BC320B    | PNP      | Si       | 310                        | 130                       | -50                   | -45                  | -6                   | 150                 | 200             | 2     | 450  | 135                      | 4                         | TO-92        | 13         | F,u                        |
| BC321     | PNP      | Si       | 310                        | 100                       | -40                   | -30                  | -5                   | 150                 | 110             | 2     | 450  | 135                      | 4                         | TO-92        | 13         | F                          |
| BC321A    | PNP      | Si       | 310                        | 100                       | -40                   | -30                  | -5                   | 150                 | 110             | 2     | 220  | 135                      | 4                         | TO-92        | 13         | F,u                        |
| BC321B    | PNP      | Si       | 310                        | 100                       | -40                   | -30                  | -5                   | 150                 | 200             | 2     | 450  | 135                      | 4                         | TO-92        | 13         | F,u                        |
| BC322     | PNP      | Si       | 310                        | 100                       | -30                   | -20                  | -5                   | 150                 | 110             | 2     | 800  | 135                      | 4                         | TO-92        | 13         | F,u                        |
| BC322B    | PNP      | Si       | 310                        | 100                       | -30                   | -20                  | -5                   | 150                 | 200             | 2     | 450  | 135                      | 4                         | TO-92        | 13         | F,u                        |
| BC322C    | PNP      | Si       | 310                        | 100                       | -30                   | -20                  | -5                   | 150                 | 420             | 2     | 800  | 135                      | 4                         | TO-92        | 13         | F,u                        |
| BC323     | NPN      | Si       | 800                        | 50                        | 100                   | 60                   | 5                    | 5A                  | 50              | 500   | -    | 200                      | 80                        | TO-39        | 08         | SGS                        |
| BC325     | PNP      | Si       | 360                        | 60                        | -60                   | -60                  | -5                   | 50                  | 175             | 1     | -    | 200                      | 9                         | TO-18        | 05         | TI                         |
| BC326     | PNP      | Si       | 360                        | 60                        | -60                   | -60                  | -5                   | 50                  | 250             | 1     | -    | 200                      | 9                         | TO-18        | 05         | TI                         |
| BC327     | PNP      | Si       | 625                        | 100                       | -50                   | -45                  | -5                   | 800                 | 67              | 100   | 150  | 150                      | 12                        | TO-92        | 11         | AEG,F,ITT,<br>M,Mo,N,u     |
| BC327-10  | PNP      | Si       | 625                        | 100                       | -50                   | -45                  | -5                   | 800                 | 67              | 100   | 150  | 150                      | 12                        | TO-92        | 11         | AEG,N                      |
| BC327-16  | PNP      | Si       | 625                        | 100                       | -50                   | -45                  | -5                   | 800                 | 106             | 100   | 236  | 150                      | 12                        | TO-92        | 11         | AEG,F,GE,<br>ITT,Mo,N,Sp   |
| BC327-25  | PNP      | Si       | 625                        | 100                       | -50                   | -45                  | -5                   | 800                 | 170             | 100   | 375  | 150                      | 12                        | TO-92        | 11         | AEG,F,ITT,<br>Mo,N,Sp      |
| BC327-40  | PNP      | Si       | 625                        | 100                       | -50                   | -45                  | -5                   | 800                 | 265             | 100   | 600  | 150                      | 12                        | TO-92        | 11         | AEG,ITT,Sp                 |
| BC327P    | PNP      | Si       | 625                        | 100                       | -50                   | -45                  | -5                   | 800                 | 67              | 100   | 150  | 150                      | 12                        | TO-92        | 06         | Fe                         |
| BC328     | PNP      | Si       | 625                        | 100                       | -30                   | -25                  | -5                   | 800                 | 67              | 100   | 150  | 150                      | 12                        | TO-92        | 11         | AEG,F,ITT,<br>M,Mo,N,u     |
| BC328-10  | PNP      | Si       | 625                        | 100                       | -30                   | -25                  | -5                   | 800                 | 67              | 100   | 150  | 150                      | 12                        | TO-92        | 11         | AEG,N                      |
| BC328     | PNP      | Si       | 625                        | 100                       | -30                   | -25                  | -5                   | 800                 | 106             | 100   | 236  | 150                      | 12                        | TO-92        | 11         | AEG,F,ITT,<br>Mo,N,Sp      |
| BC328-25  | PNP      | Si       | 625                        | 100                       | -30                   | -25                  | -5                   | 800                 | 170             | 100   | 375  | 150                      | 12                        | TO-92        | 11         | AEG,F,ITT,<br>Mo,N,Sp      |
| BC328-40  | PNP      | Si       | 625                        | 100                       | -30                   | -25                  | -5                   | 800                 | 265             | 100   | 600  | 150                      | 12                        | TO-92        | 11         | AEG,ITT,Sp                 |
| BC328P    | PNP      | Si       | 625                        | 100                       | -30                   | -25                  | -5                   | 800                 | 67              | 100   | 150  | 150                      | 12                        | TO-92        | 06         | Fe                         |
| BC337     | NPN      | Si       | 625                        | 100                       | 50                    | 45                   | 5                    | 800                 | 67              | 100   | 150  | 150                      | 12                        | TO-92        | 11         | AEG,F,ITT,<br>M,Mo,N,u     |
| BC337-10  | NPN      | Si       | 625                        | 100                       | 50                    | 45                   | 5                    | 800                 | 67              | 100   | 150  | 150                      | 12                        | TO-92        | 11         | AEG,N                      |
| BC337-16  | NPN      | Si       | 625                        | 100                       | 50                    | 45                   | 5                    | 800                 | 106             | 100   | 236  | 150                      | 12                        | TO-92        | 11         | AEG,F,GE,ITT,<br>Mo,N,Sp,u |
| BC337-25  | NPN      | Si       | 625                        | 100                       | 50                    | 45                   | 5                    | 800                 | 170             | 100   | 375  | 150                      | 12                        | TO-92        | 11         | AEG,F,GE,ITT,<br>Mo,N,Sp,u |
| BC337-40  | NPN      | Si       | 625                        | 100                       | 50                    | 45                   | 5                    | 800                 | 265             | 100   | 600  | 150                      | 12                        | TO-92        | 11         | AEG,ITT,Mo,Sp,u            |
| BC337P    | NPN      | Si       | 625                        | 100                       | 50                    | 45                   | 5                    | 800                 | 67              | 100   | 150  | 150                      | 12                        | TO-92        | 06         | Fe                         |
| BC338     | NPN      | Si       | 625                        | 100                       | 30                    | 25                   | 5                    | 800                 | 67              | 100   | 150  | 150                      | 12                        | TO-92        | 11         | AEG,F,ITT,<br>M,Mo,N,u     |
| BC338-10  | NPN      | Si       | 625                        | 100                       | 30                    | 25                   | 5                    | 800                 | 67              | 100   | 150  | 150                      | 12                        | TO-92        | 11         | AEG,N                      |
| BC338-16  | NPN      | Si       | 625                        | 100                       | 30                    | 25                   | 5                    | 800                 | 106             | 100   | 236  | 150                      | 12                        | TO-92        | 11         | AEG,F,ITT,<br>Mo,N,Sp,u    |